

APRIL/MAY 2024

CECA64C — MOBILE COMPUTING

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Give examples for Wireless Devices.
2. Differentiate between Flat Fading and Frequency Selective Fading.
3. What are the advantages of a Fixed TDM Pattern?
4. Write down the fundamental features of the GSM System.
5. Expand GSM and GPRS.
6. What are the benefits of location Information for Routing in ad-hoc Networks?
7. Differentiate between Home Network and Foreign Network.
8. What do you mean by Care-of-address?

9. State the objectives of the Wireless Application Protocol Forum.

10. Define: WML.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write an overview about the Wireless Communication Systems.

Or

(b) Briefly discuss on the Amplitude Frequency and Phase Domain Representations of a Signal.

12. (a) Enumerate the advantages and disadvantages of GEO and MEO Satellite.

Or

(b) Write an account on Digital Audio Broadcasting.

13. (a) Compare Infrared versus Radio Transmission.

Or

(b) Write an overview about the significances of Wireless ATM.

14. (a) Narrate the several entities and terms needed to understand Mobile IP.

Or

(b) Illustrate the architecture of WAR.

15. (a) Exemplify the several capabilities of WML Script.

Or

(b) Briefly describe the logical architecture of WTA.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explicate the different Multiplexing techniques used in Wireless Communication,

17. Discuss on the counter measures in SDMA, FDMA and TDMA Systems.

18. Illustrate the IEEE. 802.11 Protocol architecture and Management.

19. Explicate the significances of Dynamic Host Configuration Protocol.

20. Expound the basic features and significances of Wireless Mark-up Language.